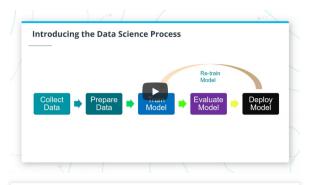
The Data Science Process SEND FEEDE

## The Data Science Process

Big data has become part of the lexicon of organizations worldwide, as more and more organizations look to leverage data to drive informed business decisions. With this evolution in business decision-making, the amount of raw data collected, along with the number and diversity of data sources, is growing at an astounding rate. This data presents enormous potential.

Raw data, however, is often noisy and unreliable and may contain missing values and outliers. Using such data for modeling can produce misleading results. For the data scientist, the ability to combine large, disparate data sets into a format more appropriate for analysis is an increasingly crucial skill.

The data science process typically starts with collecting and preparing the data before moving on to training, evaluating, and deploying a model. Let's have a look.



## QUESTION 1 OF 3

Here are the typical steps of the data science process that we just discussed. Can you remember the correct order?

Sidemit to their your ensurer choices!

STEP

DESCRIPTION

Steps 1 & 2

Collect and prepare the data

Train the model and evaluate its performance

Steps 5 & 6

Deploy the model and then retrain as necessary

SUBMIT

## QUESTION 2 OF 3

Here are some of the steps once again, along with some of the actions that you would carry out during those steps. Can you match the step with the appropriate action?

(Again, first try to do it from memory—but have a look at the text or video above if you get stuck.)

Submit to check your answer choices

Package the model and dependencies

Deploy the model

Run the model through a final exam using data from your validation data set

Create features needed for the model

Prepare the data

Select the algorithm, and prepare training, testing, and validation data sets

Train the model

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## QUESTION 3 OF 3

In machine learning, often you have to tune parameters for the chosen learning algorithm to improve the performance on relevant metrics, such as prediction accuracy. At what stage of the data science lifecycle do you optimize the parameters?



- Evaluating the model
- O Deploying the model

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